LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.021 | 176 | 178 | 182 | rBV | 12728 | 18889 | 1.10% | 0.083% |
| 2 | 4.753 | 239 | 242 | 252 | rBV | 657074 | 1056436 | 61.25% | 4.619% |
| 3 | 5.210 | 279 | 282 | 284 | rBV | 1393265 | 1724806 | 100.00% | 7.541% |
| 4 | 6.273 | 372 | 375 | 377 | rBV | 1503700 | 1514406 | 87.80% | 6.621% |
| 5 | 6.399 | 383 | 386 | 388 | rBV | 1258792 | 1641287 | 95.16% | 7.175% |
| 6 | 6.627 | 403 | 406 | 408 | rBV | 458872 | 376271 | 21.82% | 1.645% |
| 7 | 6.787 | 417 | 420 | 422 | rVB | 1122444 | 1210600 | 70.19% | 5.293% |
| 8 | 7.199 | 453 | 456 | 458 | rBV | 1097767 | 1160111 | 67.26% | 5.072% |
| 9 | 7.908 | 516 | 518 | 521 | rBV | 372545 | 427650 | 24.79% | 1.870% |
| 10 | 8.536 | 571 | 573 | 576 | rVB | 31998 | 27430 | 1.59% | 0.120% |
| 11 | 8.993 | 610 | 613 | 615 | rBV | 1968831 | 1671357 | 96.90% | 7.307% |
| 12 | 9.393 | 645 | 648 | 650 | rVB | 224835 | 239819 | 13.90% | 1.048% |
| 13 | 9.588 | 662 | 665 | 666 | rBV2 | 24676 | 33175 | 1.92% | 0.145% |
| 14 | 9.656 | 669 | 671 | 674 | rBV | 488818 | 482678 | 27.98% | 2.110% |
| 15 | 10.445 | 737 | 740 | 742 | rVV | 863641 | 857347 | 49.71% | 3.748% |
| 16 | 10.525 | 745 | 747 | 750 | rBV | 58525 | 50885 | 2.95% | 0.222% |
| 17 | 10.582 | 750 | 752 | 756 | rBV | 33825 | 46603 | 2.70% | 0.204% |
| 18 | 11.028 | 787 | 791 | 792 | rBV | 36065 | 35646 | 2.07% | 0.156% |
| 19 | 11.131 | 798 | 800 | 802 | rBV | 463877 | 379847 | 22.02% | 1.661% |
| 20 | 11.188 | 803 | 805 | 806 | rBV | 28088 | 24144 | 1.40% | 0.106% |
| 21 | 11.371 | 819 | 821 | 823 | rBV2 | 18061 | 20730 | 1.20% | 0.091% |
| 22 | 11.611 | 838 | 842 | 844 | rBV | 27214 | 34303 | 1.99% | 0.150% |
| 23 | 11.691 | 847 | 849 | 851 | rBV | 170574 | 197065 | 11.43% | 0.862% |
| 24 | 12.331 | 904 | 905 | 907 | rBV | 26651 | 24306 | 1.41% | 0.106% |
| 25 | 12.559 | 922 | 925 | 927 | rBV | 39294 | 34584 | 2.01% | 0.151% |
| 26 | 12.617 | 927 | 930 | 934 | rVB2 | 11776 | 24646 | 1.43% | 0.108% |
| 27 | 12.719 | 936 | 939 | 941 | rBV | 1333194 | 1220725 | 70.77% | 5.337% |
| 28 | 12.868 | 950 | 952 | 955 | rVB | 17292 | 20463 | 1.19% | 0.089% |
| 29 | 12.948 | 957 | 959 | 963 | rBV2 | 35103 | 85527 | 4.96% | 0.374% |
| 30 | 13.074 | 968 | 970 | 973 | rBV3 | 13630 | 22547 | 1.31% | 0.099% |
| 31 | 13.302 | 988 | 990 | 992 | rVB | 16256 | 22447 | 1.30% | 0.098% |
| 32 | 13.428 | 999 | 1001 | 1003 | rBV | 31671 | 44604 | 2.59% | 0.195% |
| 33 | 13.634 | 1016 | 1019 | 1027 | rBV | 303628 | 495533 | 28.73% | 2.166% |
| 34 | 13.748 | 1027 | 1029 | 1033 | rVB | 397999 | 431103 | 24.99% | 1.885% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.954 | 1044 | 1047 | 1054 | rBV2 | 44089 | 89117 | 5.17% | 0.390% |
| 36 | 14.068 | 1055 | 1057 | 1059 | rVB | 90587 | 83020 | 4.81% | 0.363% |
| 37 | 14.262 | 1071 | 1074 | 1082 | rBV | 563595 | 868891 | 50.38% | 3.799% |
| 38 | 14.377 | 1082 | 1084 | 1087 | rVV | 43158 | 47501 | 2.75% | 0.208% |
| 39 | 14.548 | 1096 | 1099 | 1100 | rBV | 39001 | 55044 | 3.19% | 0.241% |
| 40 | 14.605 | 1103 | 1104 | 1108 | rVV | 41377 | 45766 | 2.65% | 0.200% |
| 41 | 14.674 | 1108 | 1110 | 1112 | rVV | 306613 | 281976 | 16.35% | 1.233% |
| 42 | 14.845 | 1122 | 1125 | 1126 | rBV | 417840 | 596585 | 34.59% | 2.608% |
| 43 | 14.983 | 1135 | 1137 | 1141 | rVB2 | 64578 | 85085 | 4.93% | 0.372% |
| 44 | 15.051 | 1141 | 1143 | 1145 | rVB | 16853 | 19774 | 1.15% | 0.086% |
| 45 | 15.108 | 1145 | 1148 | 1150 | rBV | 205638 | 286436 | 16.61% | 1.252% |
| 46 | 15.165 | 1151 | 1153 | 1155 | rVB | 27487 | 33991 | 1.97% | 0.149% |
| 47 | 15.337 | 1165 | 1168 | 1172 | rVB | 399242 | 529877 | 30.72% | 2.317% |
| 48 | 15.531 | 1182 | 1185 | 1188 | rBV | 364075 | 559908 | 32.46% | 2.448% |
| 49 | 15.577 | 1188 | 1189 | 1192 | rVV | 135688 | 275026 | 15.95% | 1.202% |
| 50 | 15.634 | 1192 | 1194 | 1199 | rVV2 | 96119 | 203683 | 11.81% | 0.890% |
| 51 | 15.737 | 1200 | 1203 | 1207 | rVB3 | 59685 | 118904 | 6.89% | 0.520% |
| 52 | 16.194 | 1240 | 1243 | 1248 | rBV | 243795 | 482198 | 27.96% | 2.108% |
| 53 | 16.388 | 1256 | 1260 | 1263 | rBV3 | 57334 | 146100 | 8.47% | 0.639% |
| 54 | 16.446 | 1263 | 1265 | 1268 | rVV | 80563 | 153158 | 8.88% | 0.670% |
| 55 | 16.537 | 1268 | 1273 | 1276 | rVV3 | 60466 | 202337 | 11.73% | 0.885% |
| 56 | 16.606 | 1276 | 1279 | 1285 | rVB2 | 71586 | 192190 | 11.14% | 0.840% |
| 57 | 16.743 | 1288 | 1291 | 1296 | rVB4 | 17713 | 38563 | 2.24% | 0.169% |
| 58 | 16.846 | 1296 | 1300 | 1306 | rBV | 100885 | 297497 | 17.25% | 1.301% |
| 59 | 17.108 | 1321 | 1323 | 1325 | rBV2 | 15876 | 32103 | 1.86% | 0.140% |
| 60 | 17.223 | 1330 | 1333 | 1337 | rBV4 | 16826 | 51964 | 3.01% | 0.227% |
| 61 | 17.383 | 1343 | 1347 | 1353 | rBV2 | 88034 | 237350 | 13.76% | 1.038% |
| 62 | 17.691 | 1370 | 1374 | 1380 | rVB2 | 62529 | 164566 | 9.54% | 0.719% |
| 63 | 18.137 | 1410 | 1413 | 1419 | rVB6 | 21946 | 57565 | 3.34% | 0.252% |
| 64 | 18.423 | 1433 | 1438 | 1444 | rBV5 | 32223 | 124859 | 7.24% | 0.546% |
| 65 | 18.560 | 1444 | 1450 | 1459 | rVB | 273507 | 854601 | 49.55% | 3.736% |

Sum of corrected areas: 22873605

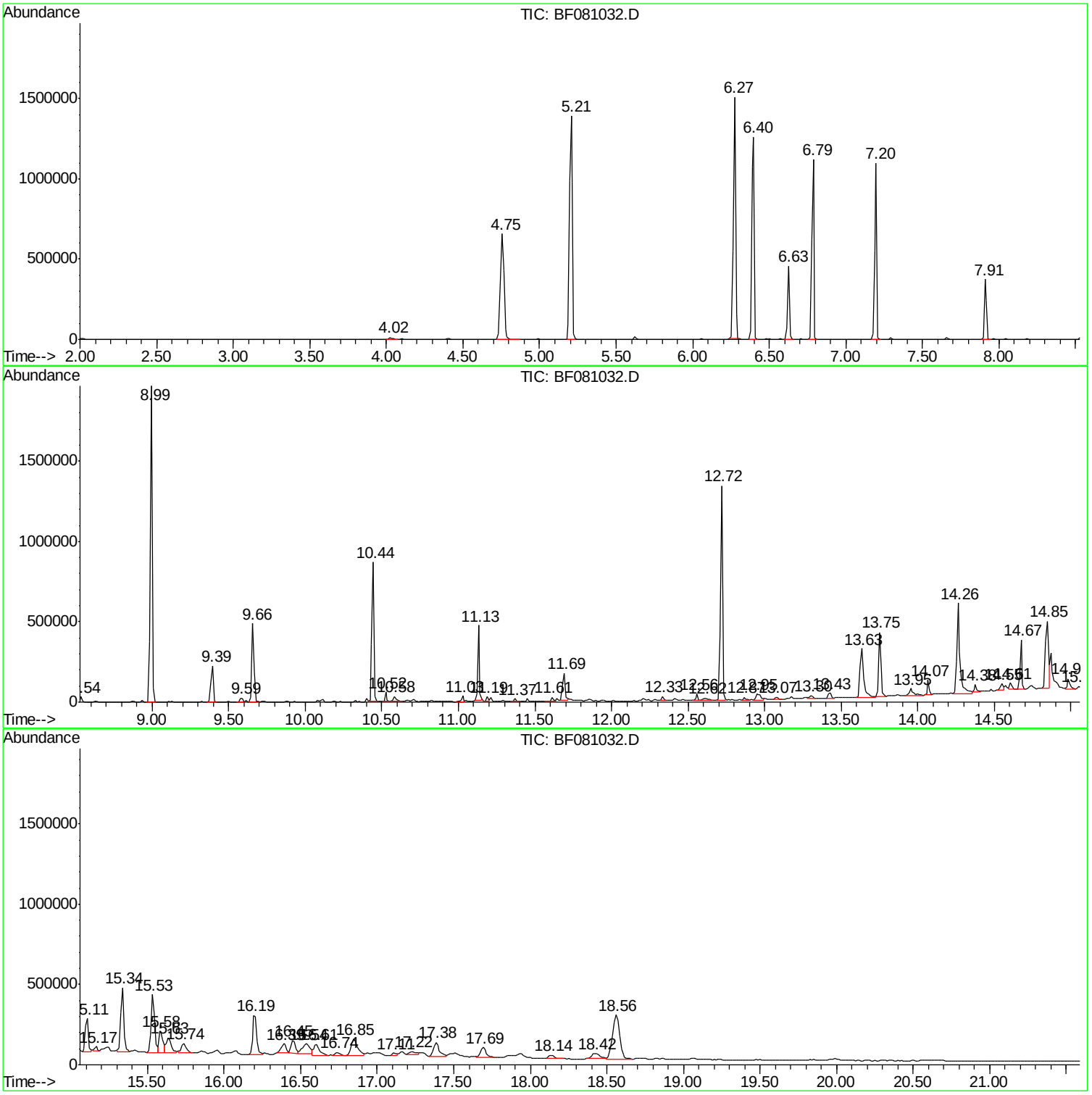
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

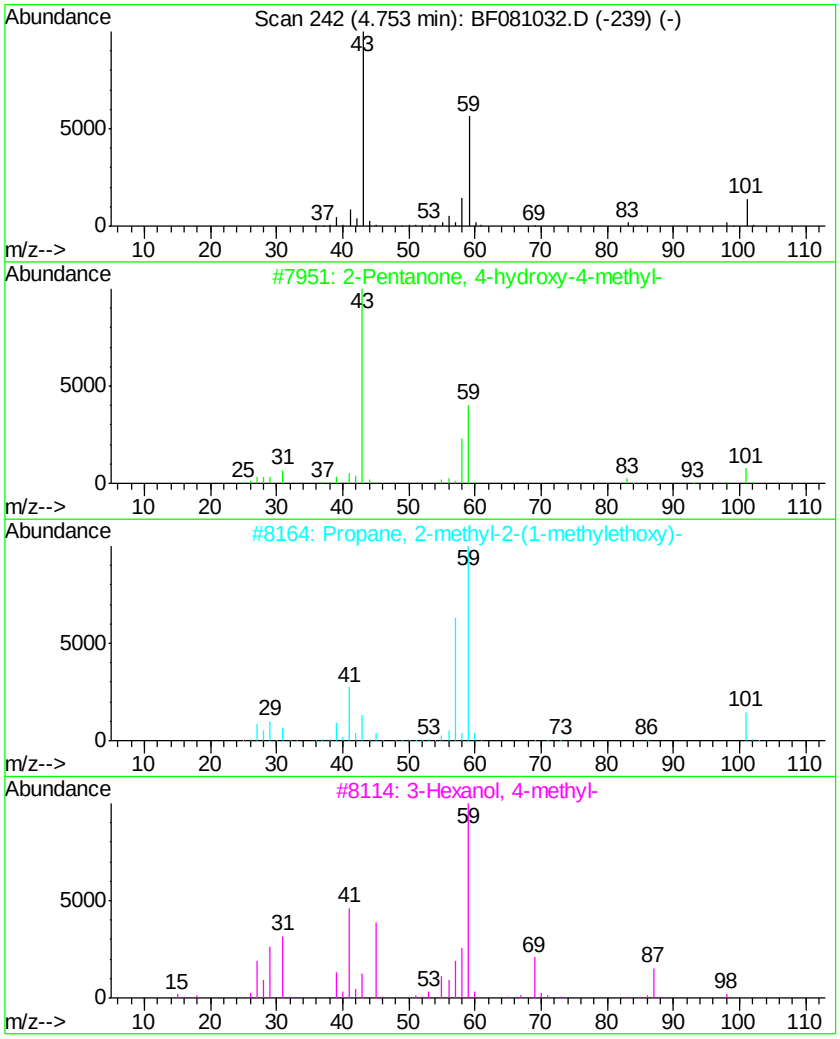
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

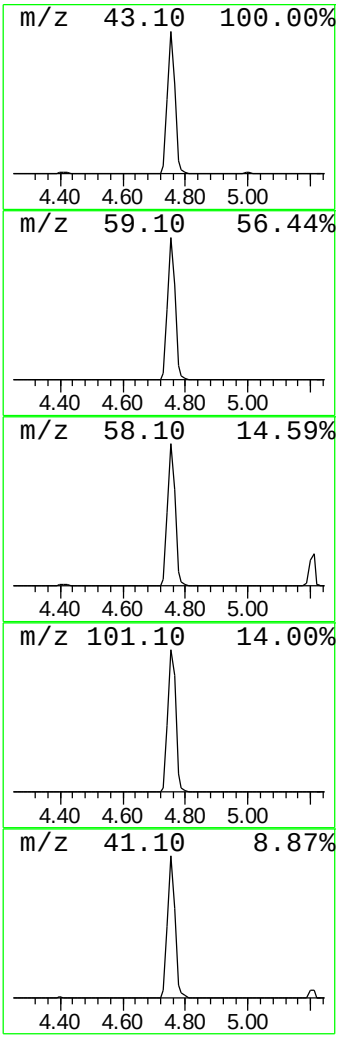
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.75 | 56.15 ng | 1056440 | 1,4-Dichlorobenzene-d4 | 6.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 42 |
| 3 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 4 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 33 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

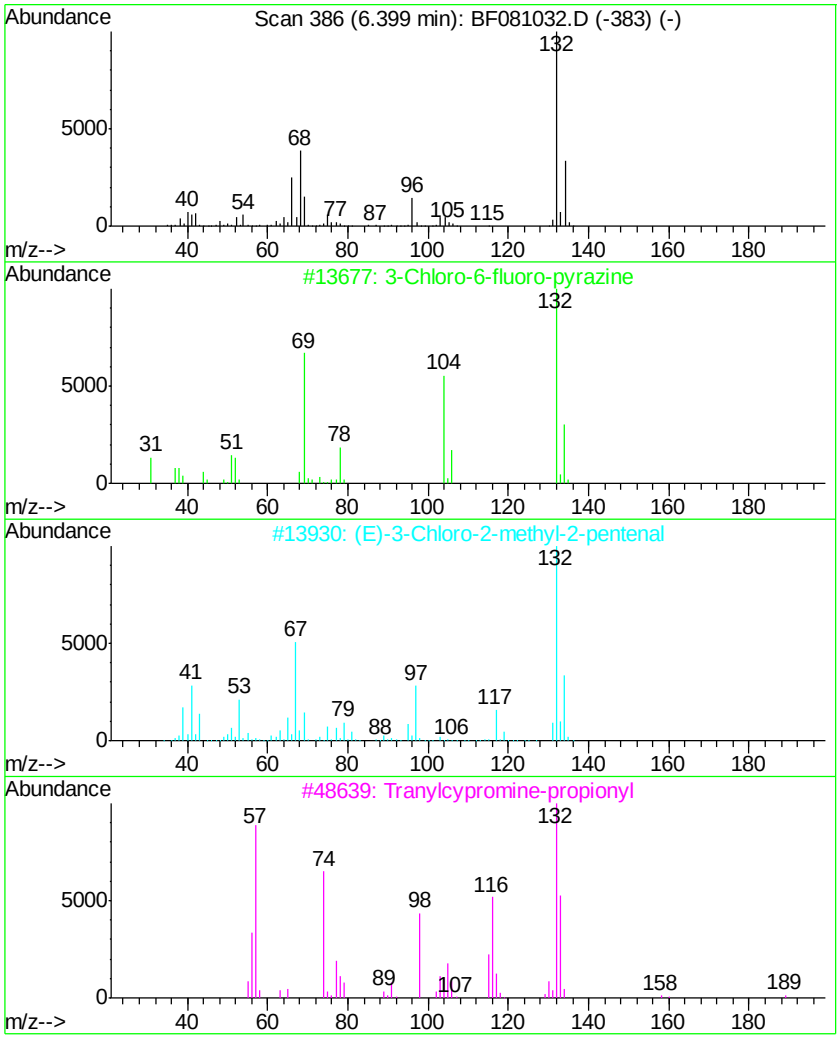
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

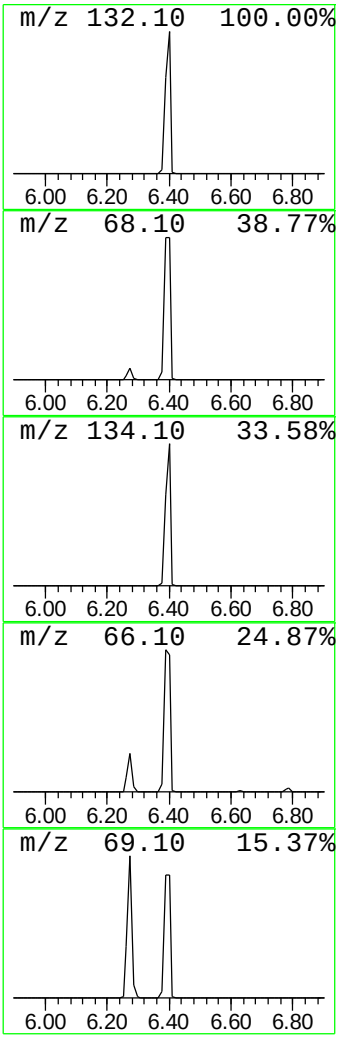
**********

Peak Number 2 unknown6.40 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.40 | 87.24 ng | 1641290 | 1,4-Dichlorobenzene-d4 | 6.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 4 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 9 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

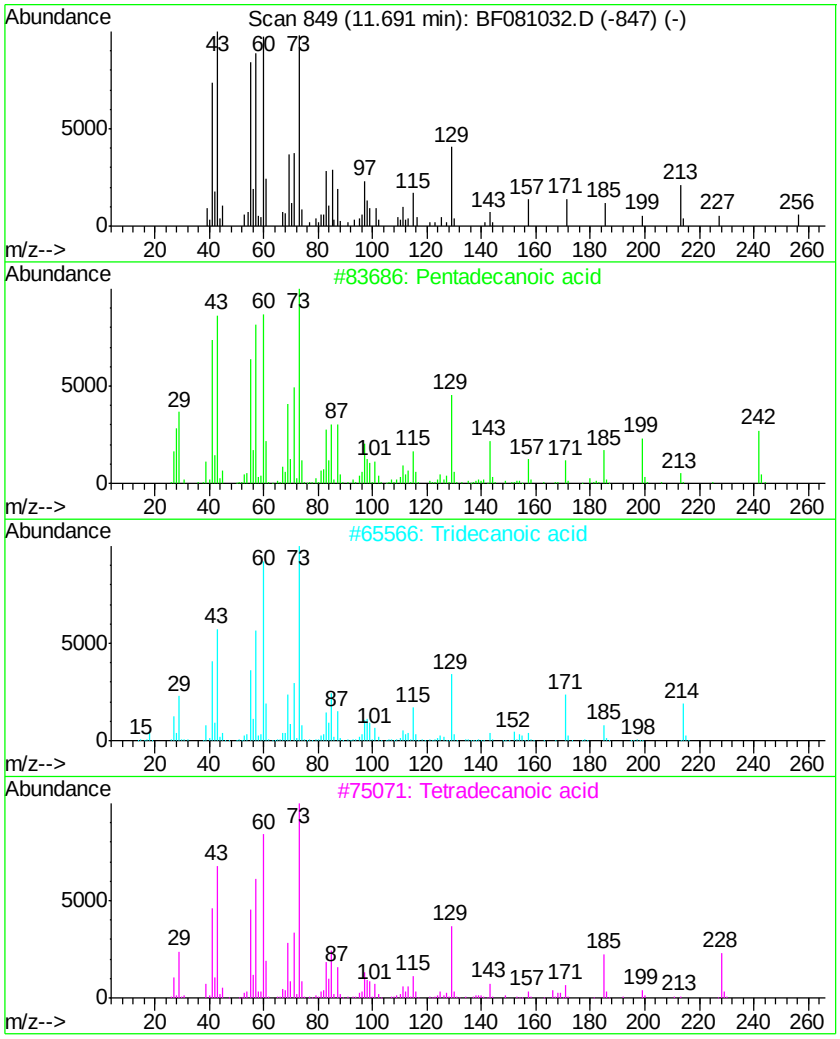
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

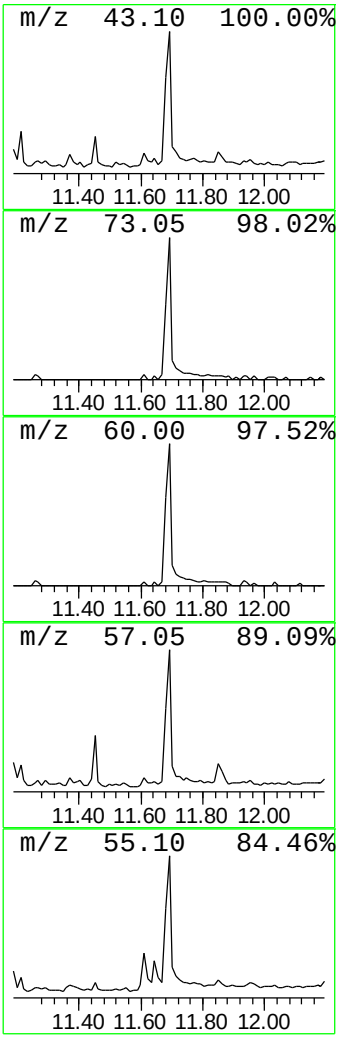
**********

Peak Number 4 Pentadecanoic acid Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.69 | 10.38 ng | 197065 | Phenanthrene-d10 | 11.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 80 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 74 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 4 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 64 |
| 5 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 53 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

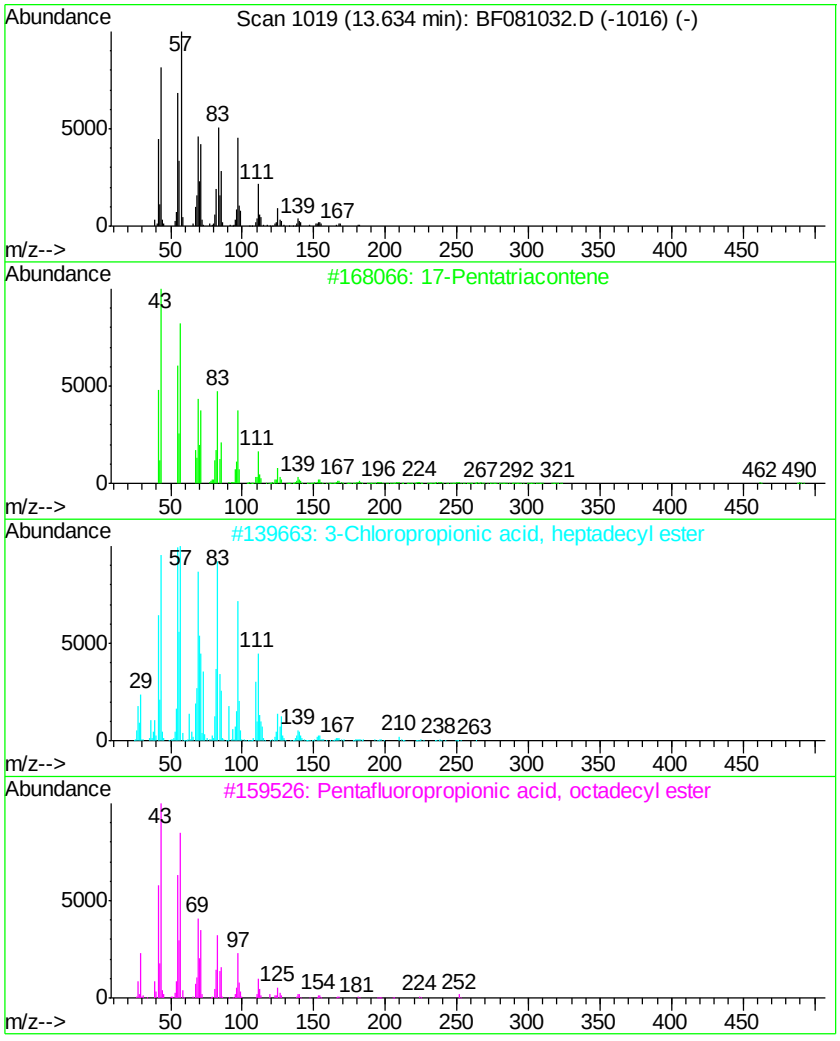
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

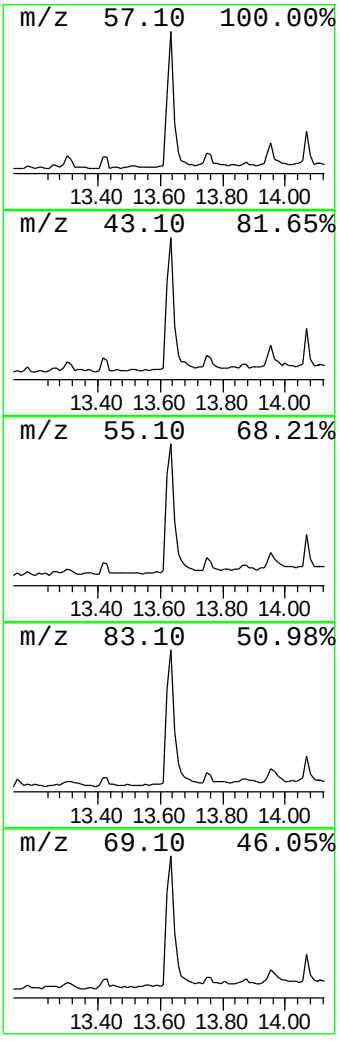
**********

Peak Number 5 17-Pentatriacontene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.63 | 22.99 ng | 495533 | Chrysene-d12 | 13.75 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 17-Pentatriacontene | 491 | C35H70 | 006971-40-0 | 91 |
| 2 | 3-Chloropropionic acid, heptadec... | 346 | C20H39ClO2 | 1000283-05-1 | 81 |
| 3 | Pentafluoropropionic acid, octad... | 416 | C21H37F5O2 | 1000280-07-7 | 74 |
| 4 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 70 |
| 5 | 2-Hexyl-1-octanol | 214 | C14H30O | 019780-79-1 | 62 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

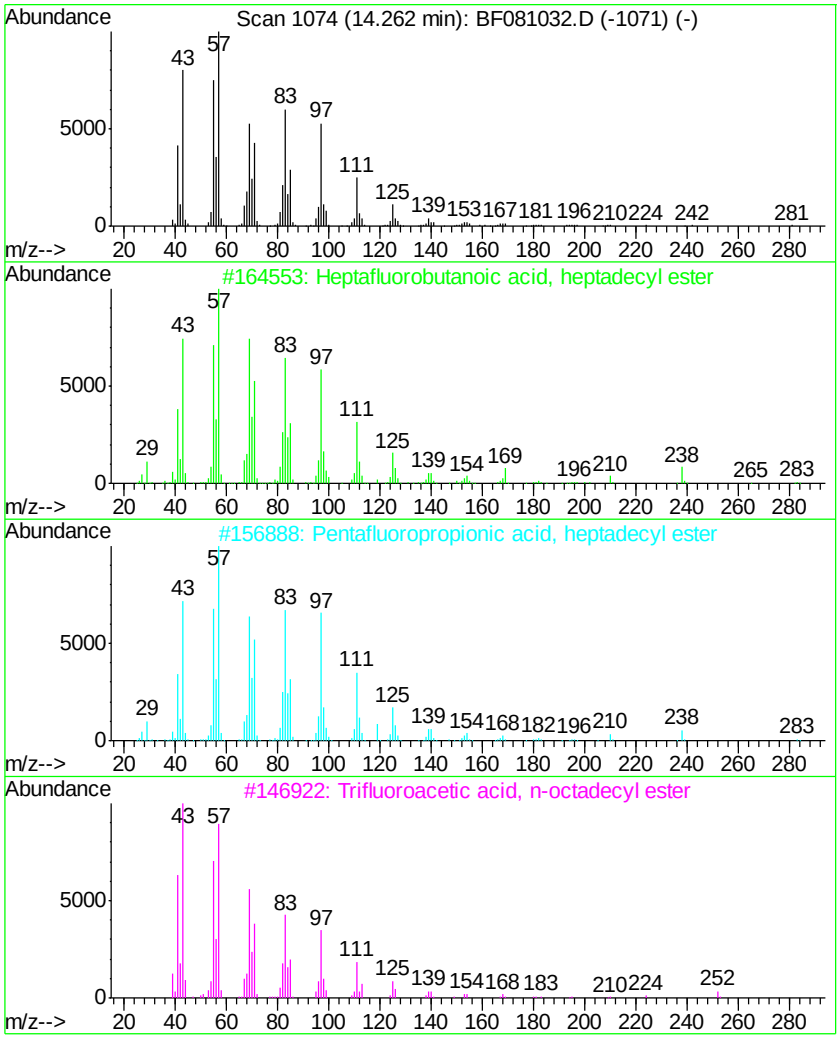
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

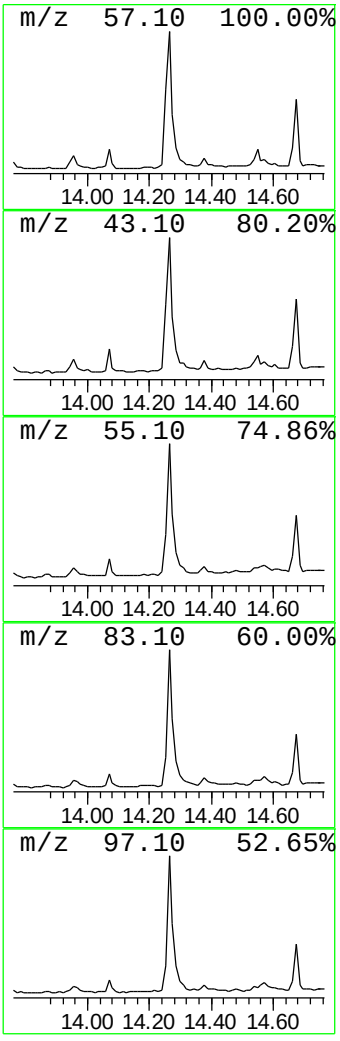
**********

Peak Number 6 Heptafluorobutanoic acid, h... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.26 | 40.31 ng | 868891 | Chrysene-d12 | 13.75 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 91 |
| 2 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 1000283-04-2 | 91 |
| 3 | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 91 |
| 4 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 87 |
| 5 | 1-Octadecanol | 270 | C18H38O | 000112-92-5 | 83 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

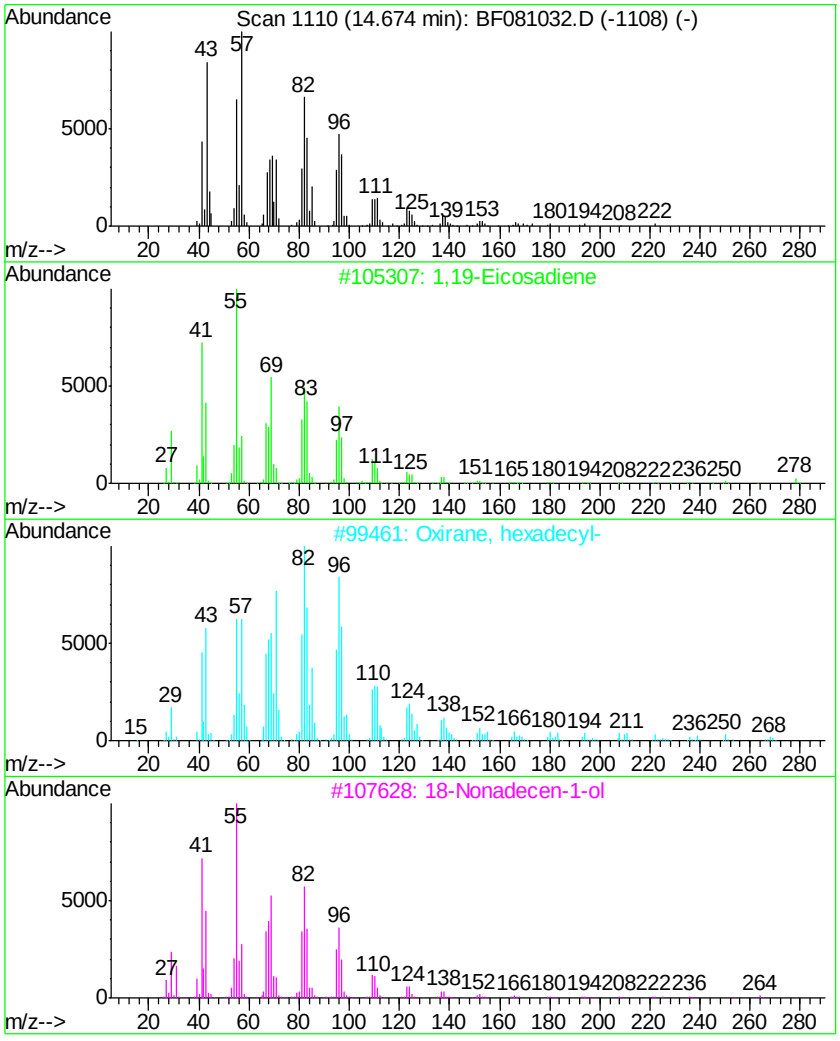
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

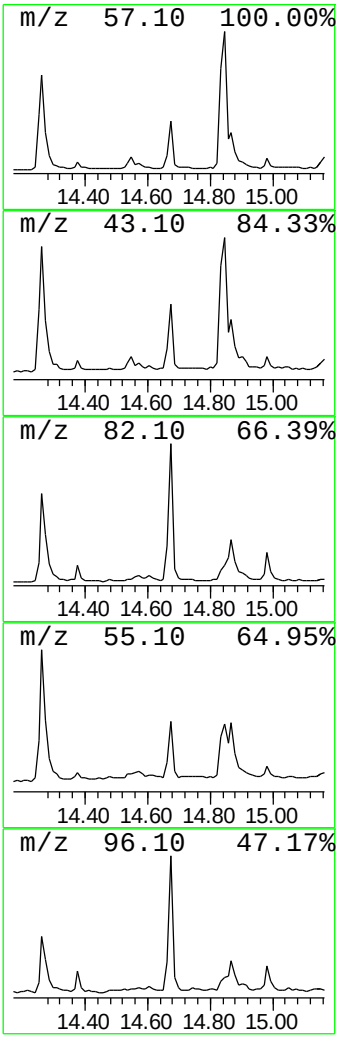
**********

Peak Number 7 1,19-Eicosadiene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.67 | 19.69 ng | 281976 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,19-Eicosadiene | 278 | C20H38 | 014811-95-1 | 90 |
| 2 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 90 |
| 3 | 18-Nonadecen-1-ol | 282 | C19H38O | 1000142-89-2 | 86 |
| 4 | 1,16-Hexadecanediol | 258 | C16H34O2 | 007735-42-4 | 83 |
| 5 | Pentadecanal- | 226 | C15H30O | 002765-11-9 | 72 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

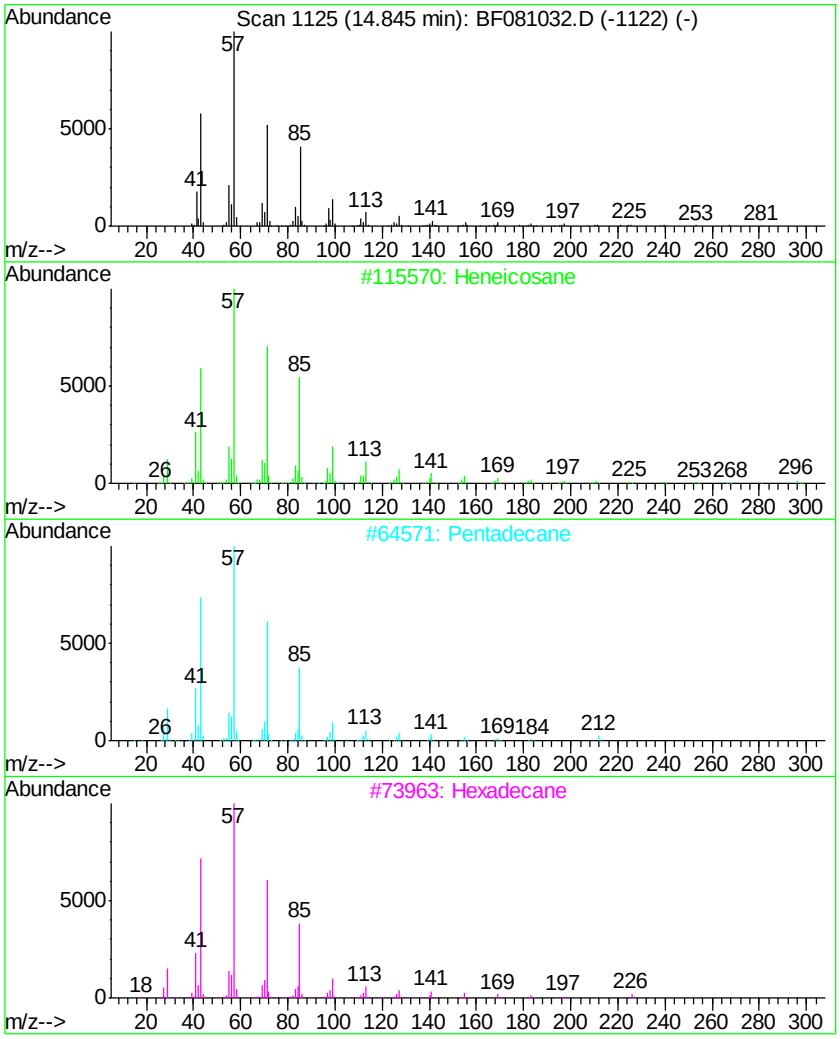
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

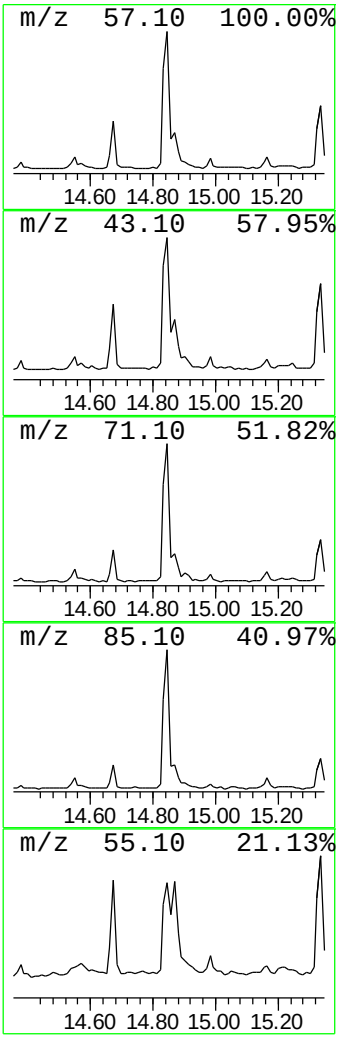
**********

Peak Number 8 Heneicosane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.85 | 41.66 ng | 596585 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 87 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 87 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 83 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 72 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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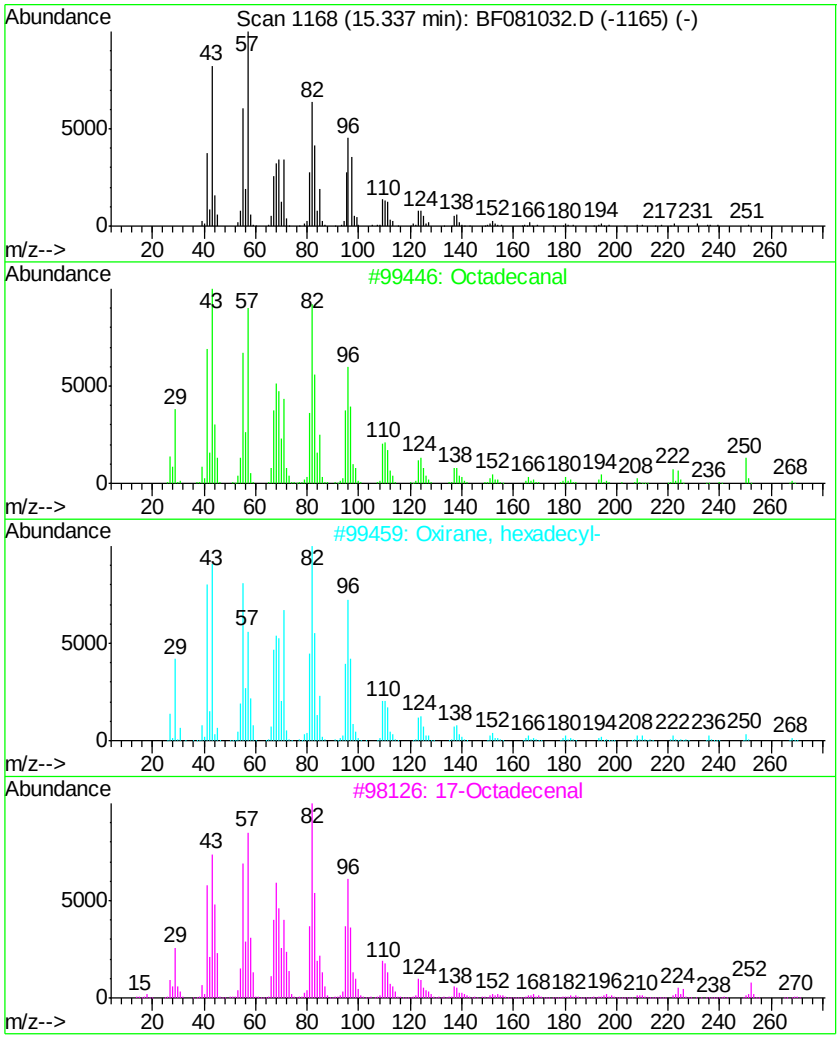
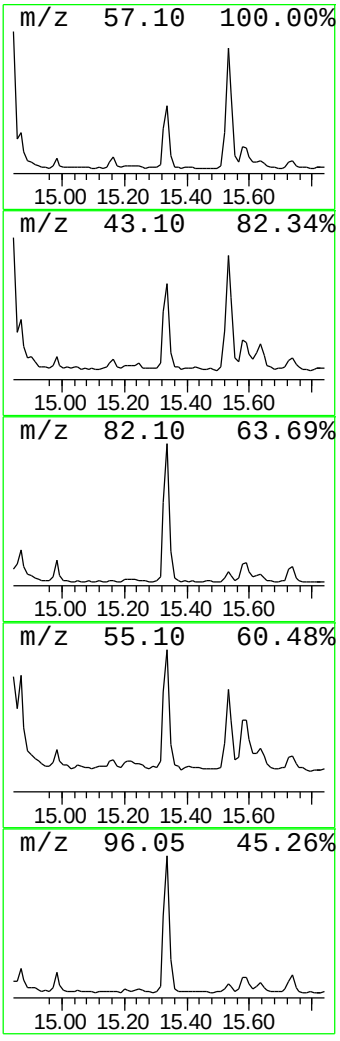
Peak Number 9 Octadecanal Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.34 | 37.00 ng | 529877 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanal | 268 | C18H36O | 000638-66-4 | 91 |
| 2 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 91 |
| 3 | 17-Octadecenal | 266 | C18H34O | 056554-86-0 | 90 |
| 4 | Tetradecanal | 212 | C14H28O | 000124-25-4 | 90 |
| 5 | 1,19-Eicosadiene | 278 | C20H38 | 014811-95-1 | 87 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

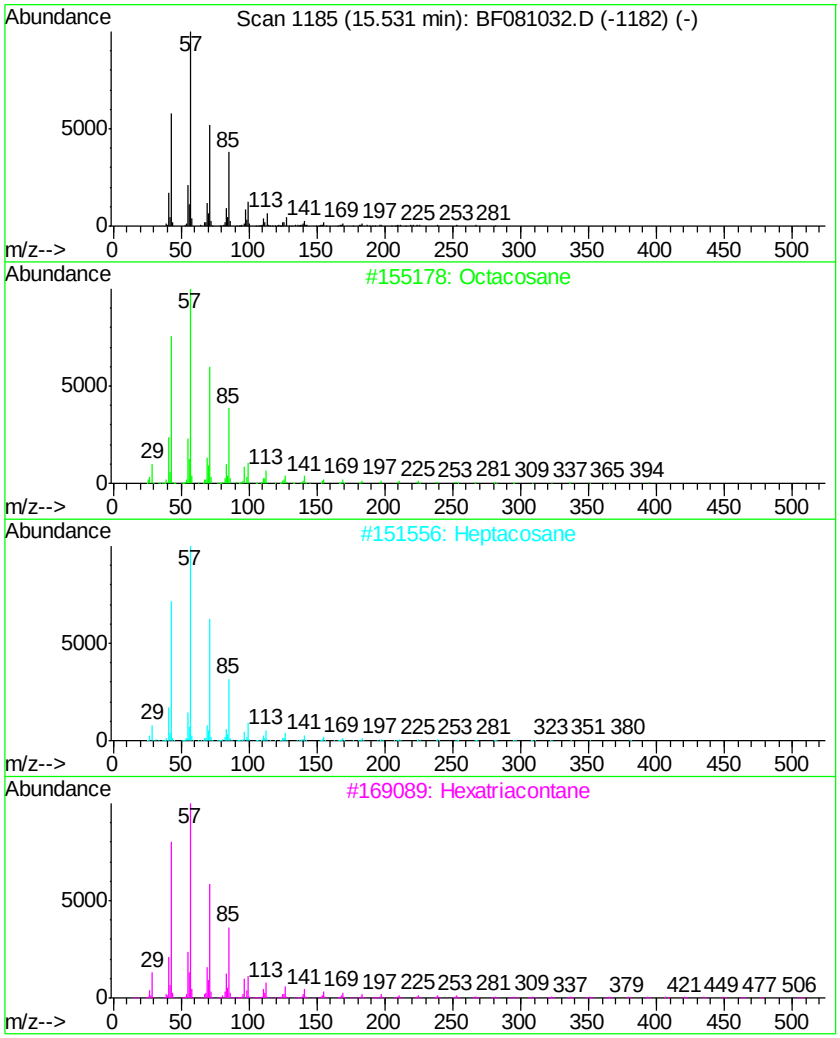
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

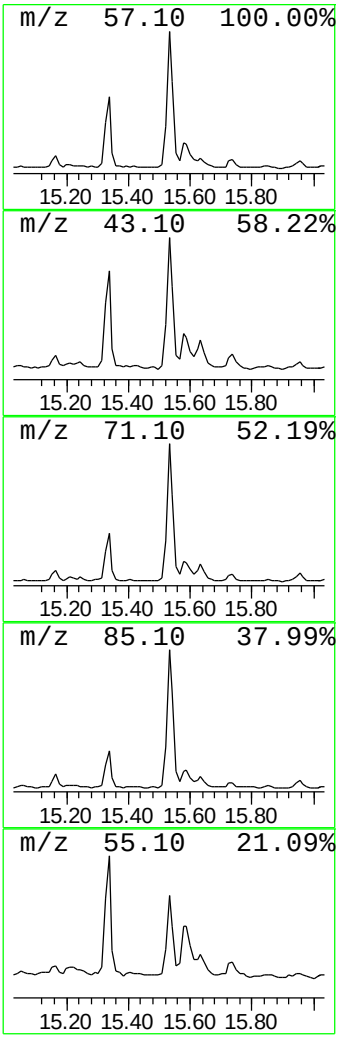
**********

Peak Number 10 Octacosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.53 | 39.09 ng | 559908 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 3 | Hexatriacontane | 507 | C36H74 | 000630-06-8 | 91 |
| 4 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 91 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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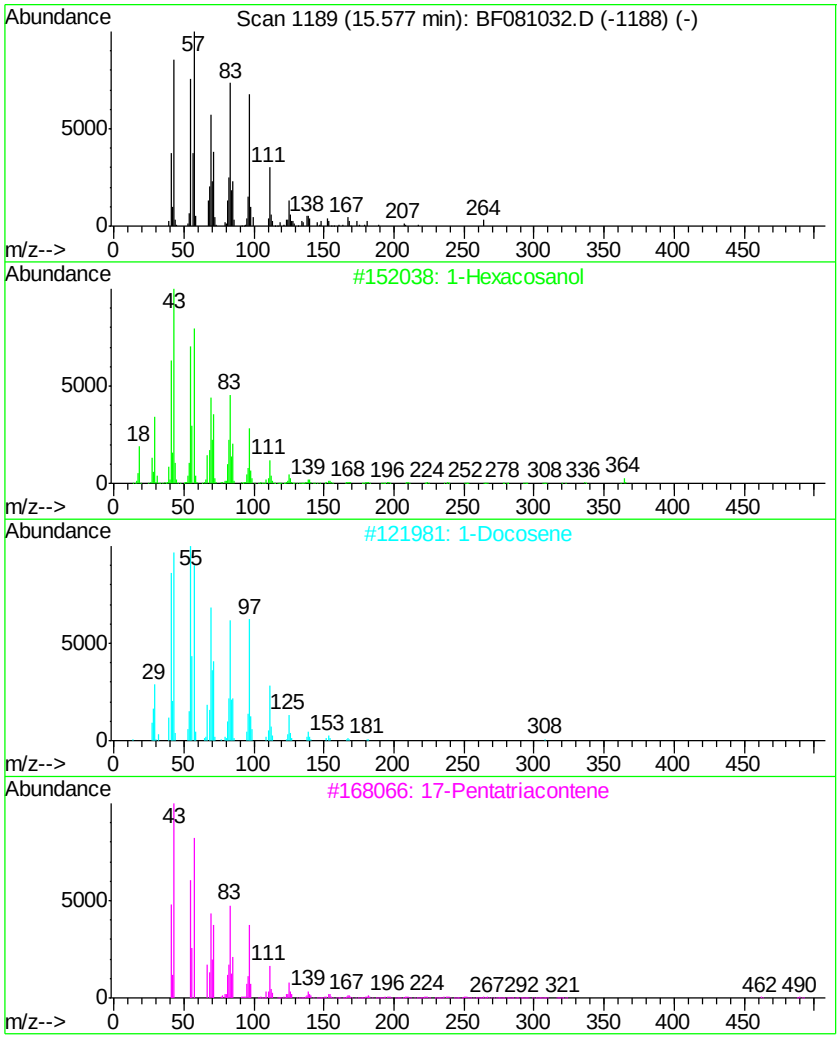
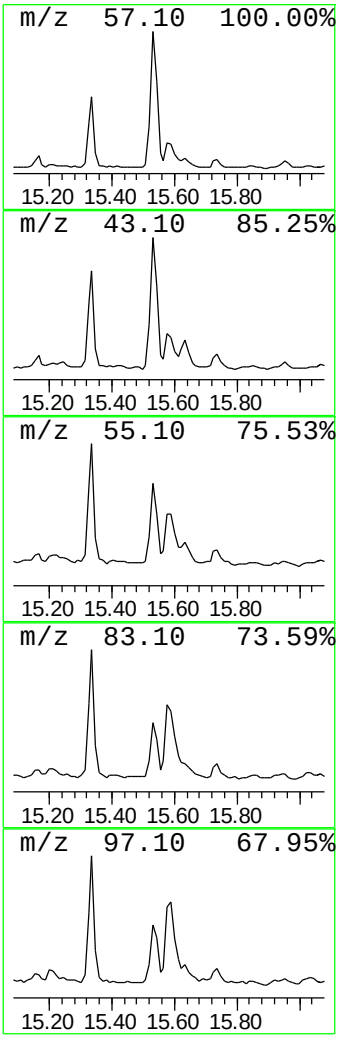
Peak Number 11 1-Hexacosanol Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.58 | 19.20 ng | 275026 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexacosanol | 382 | C26H54O | 000506-52-5 | 80 |
| 2 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 74 |
| 3 | 17-Pentatriacontene | 491 | C35H70 | 006971-40-0 | 62 |
| 4 | 1-Tetracosanol | 354 | C24H50O | 000506-51-4 | 58 |
| 5 | 1-Heptadecanol | 256 | C17H36O | 001454-85-9 | 49 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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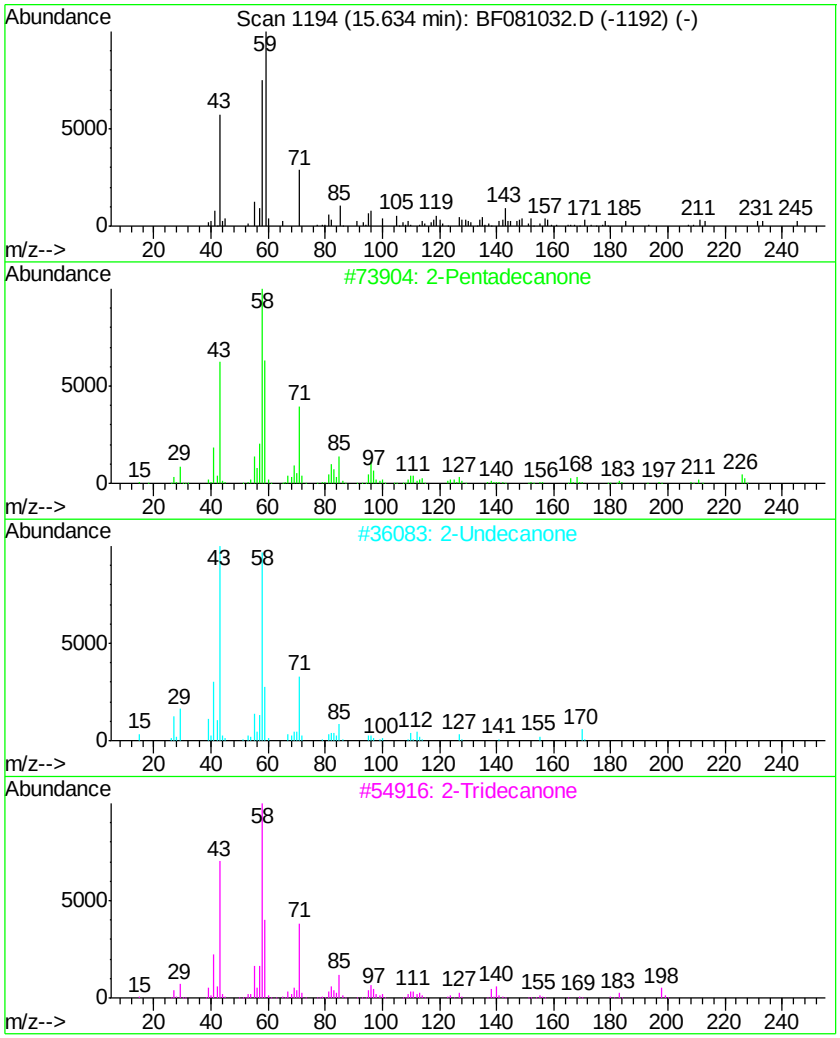
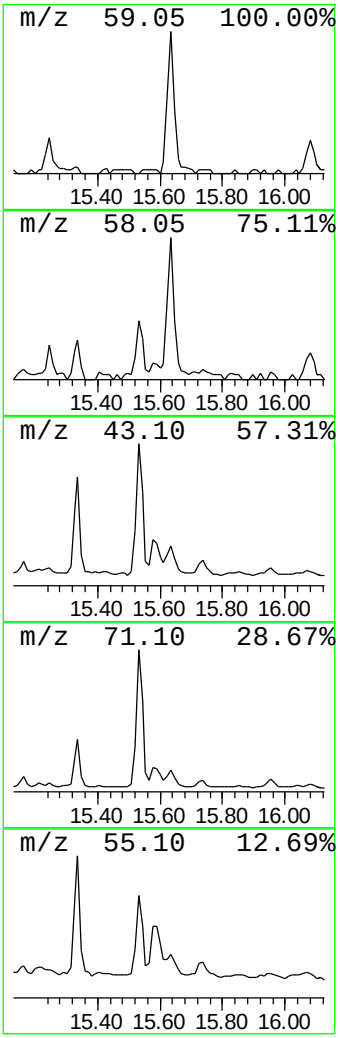
Peak Number 12 2-Pentadecanone Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.63 | 14.22 ng | 203683 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentadecanone | 226 | C15H30O | 002345-28-0 | 40 |
| 2 | 2-Undecanone | 170 | C11H22O | 000112-12-9 | 38 |
| 3 | 2-Tridecanone | 198 | C13H26O | 000593-08-8 | 38 |
| 4 | 2-Dodecanone | 184 | C12H24O | 006175-49-1 | 38 |
| 5 | Oxirane, tetramethyl- | 100 | C6H12O | 005076-20-0 | 36 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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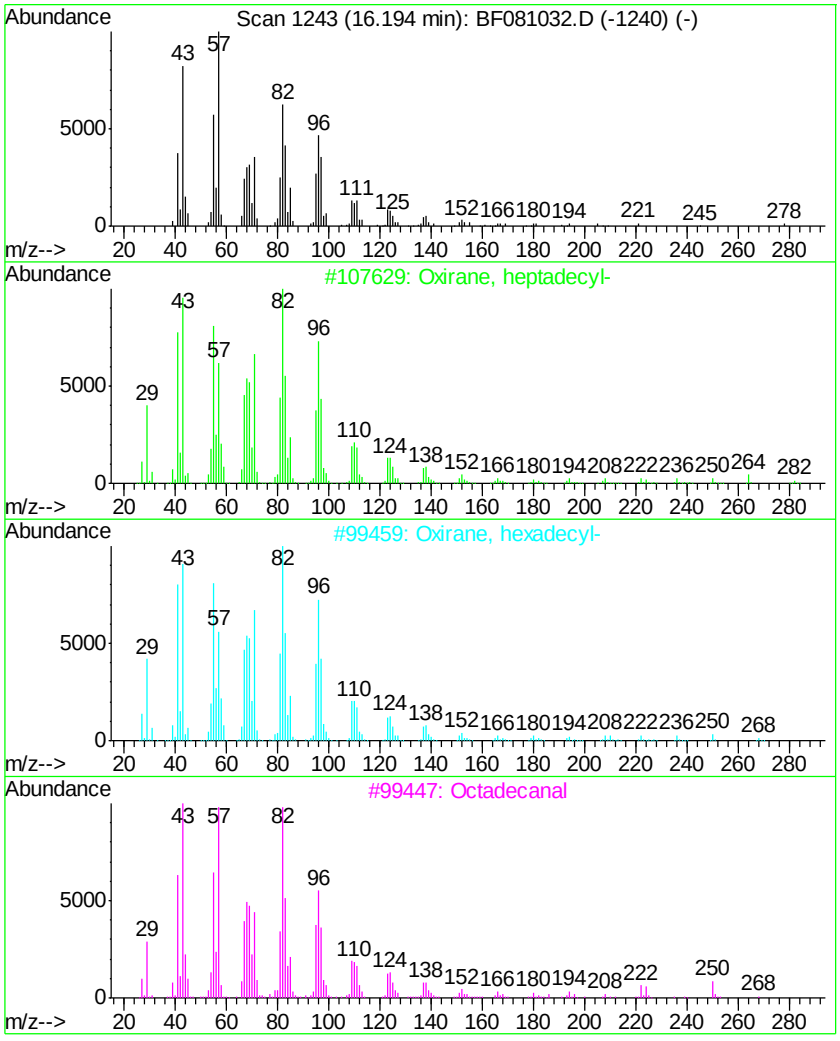
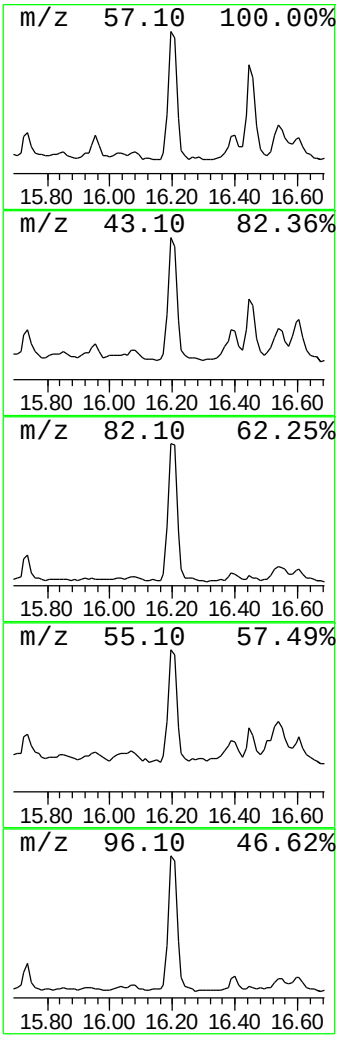
Peak Number 13 Oxirane, heptadecyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.19 | 33.67 ng | 482198 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 91 |
| 2 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 91 |
| 3 | Octadecanal | 268 | C18H36O | 000638-66-4 | 91 |
| 4 | 1,19-Eicosadiene | 278 | C20H38 | 014811-95-1 | 81 |
| 5 | 1,16-Hexadecanediol | 258 | C16H34O2 | 007735-42-4 | 81 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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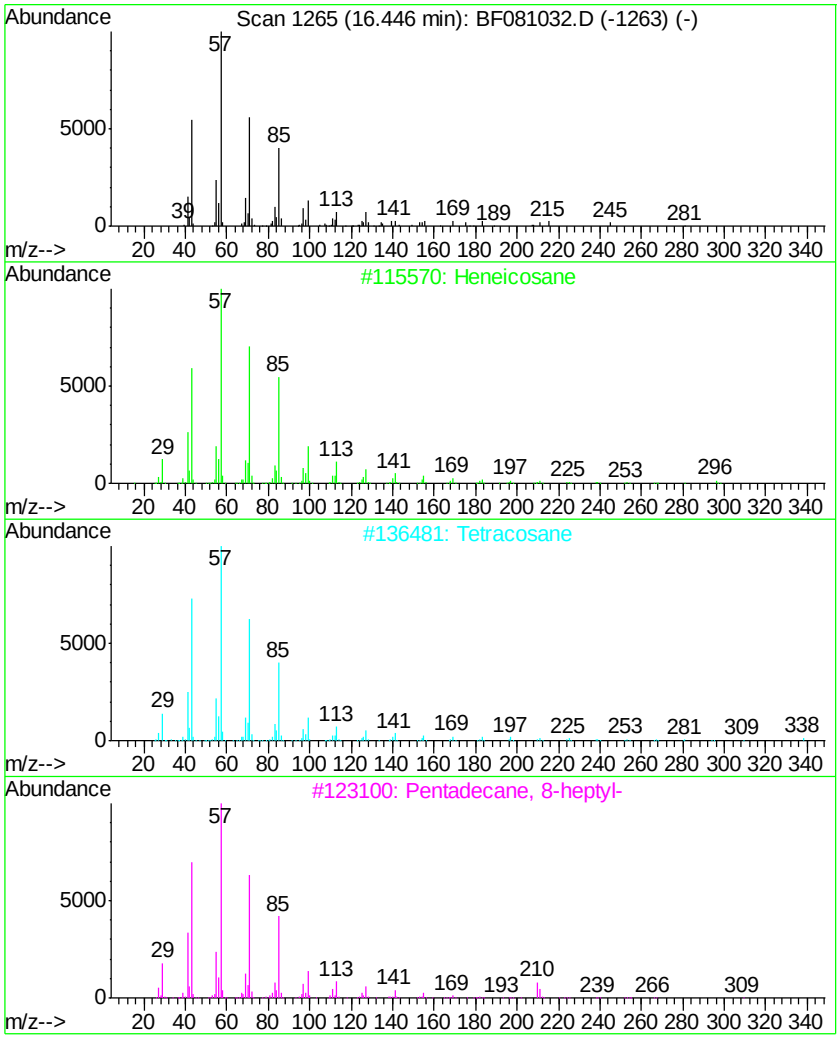
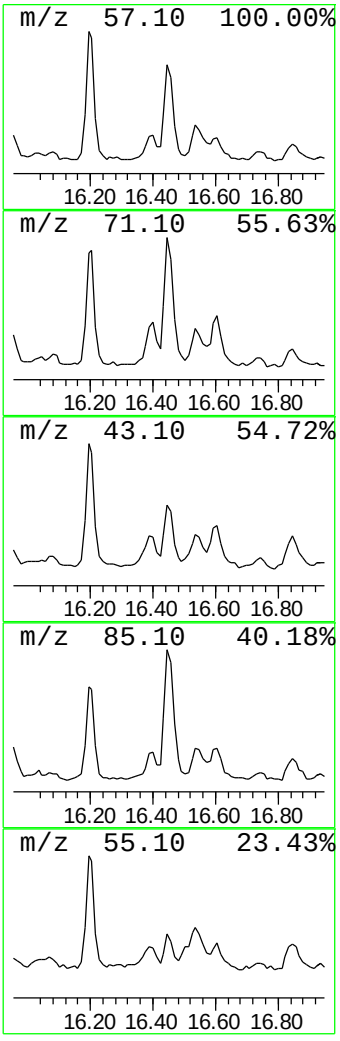
Peak Number 14 Tetracosane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.45 | 10.69 ng | 153158 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |
| 3 | Pentadecane, 8-heptyl- | 310 | C22H46 | 071005-15-7 | 90 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 87 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 86 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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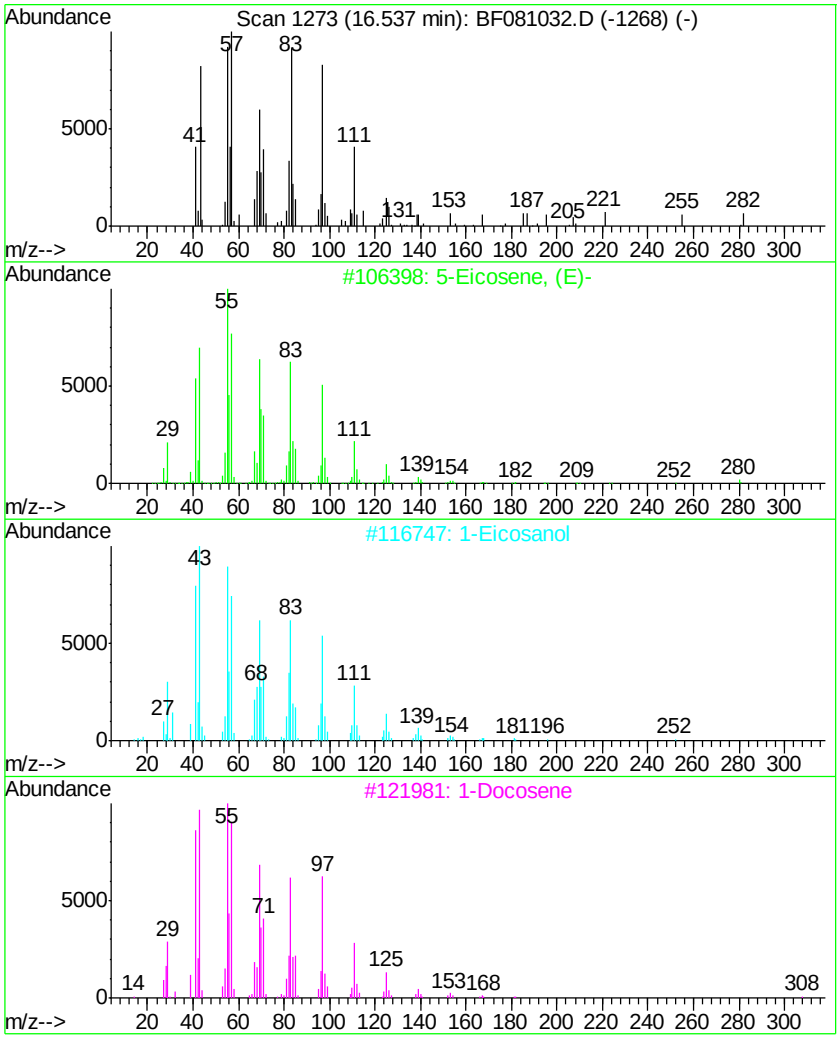
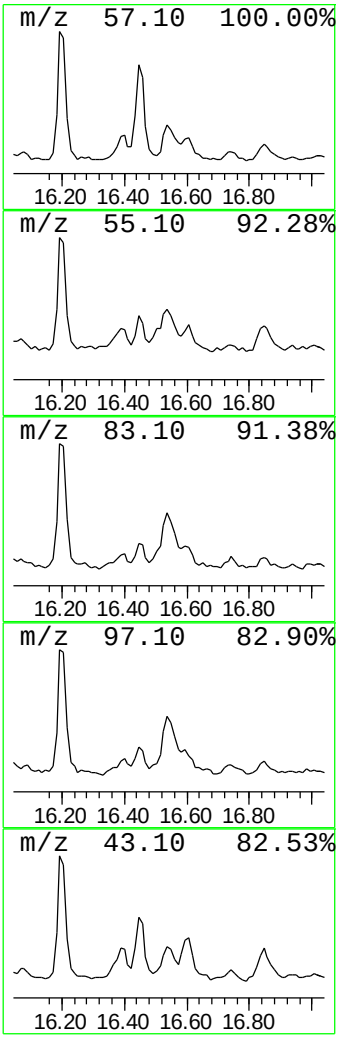
Peak Number 15 5-Eicosene, (E)- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.54 | 14.13 ng | 202337 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 52 |
| 2 | 1-Eicosanol | 298 | C20H42O | 000629-96-9 | 52 |
| 3 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 49 |
| 4 | 17-Pentatriacontene | 491 | C35H70 | 006971-40-0 | 49 |
| 5 | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 49 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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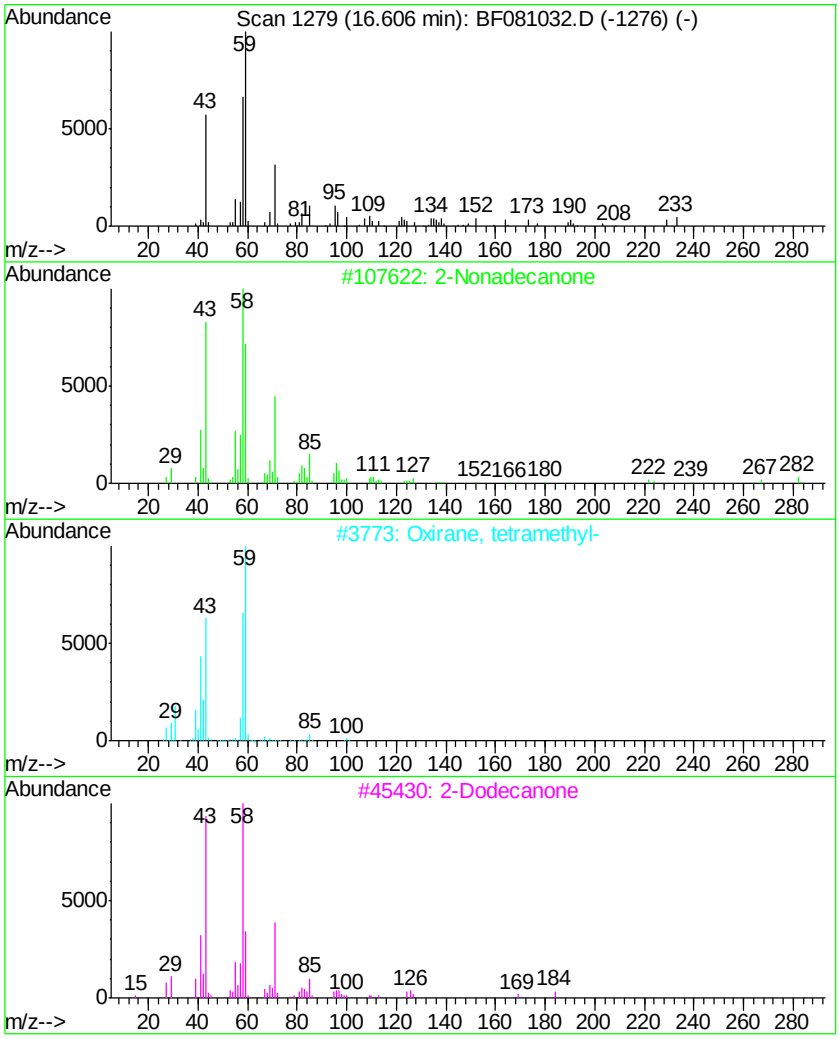
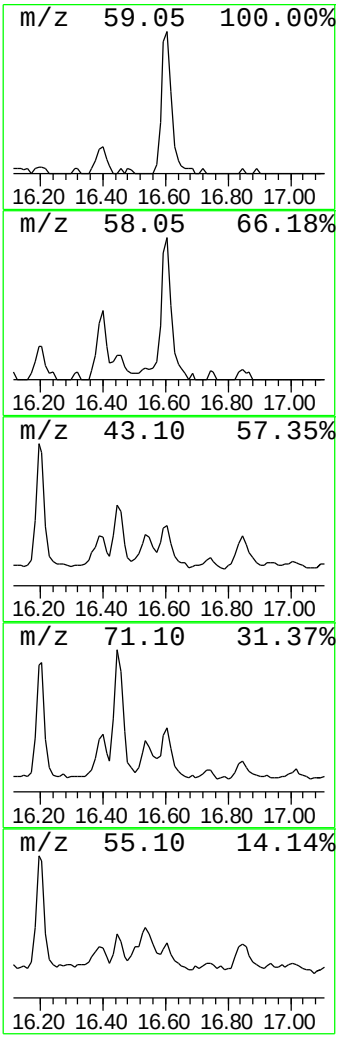
Peak Number 16 unknown16.61 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.61 | 13.42 ng | 192190 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Nonadecanone | 282 | C19H38O | 000629-66-3 | 47 |
| 2 | Oxirane, tetramethyl- | 100 | C6H12O | 005076-20-0 | 40 |
| 3 | 2-Dodecanone | 184 | C12H24O | 006175-49-1 | 38 |
| 4 | 2-Tetradecanone | 212 | C14H28O | 002345-27-9 | 38 |
| 5 | Oxetane, 2,2,4-trimethyl- | 100 | C6H12O | 023120-44-7 | 38 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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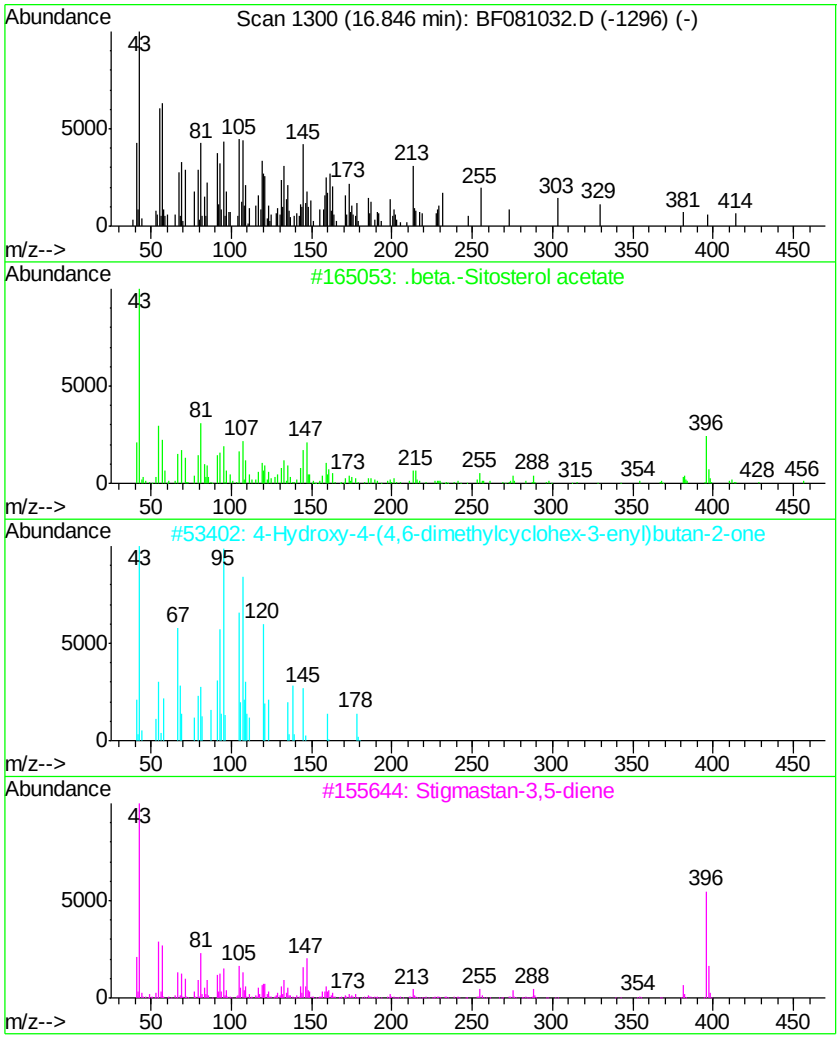
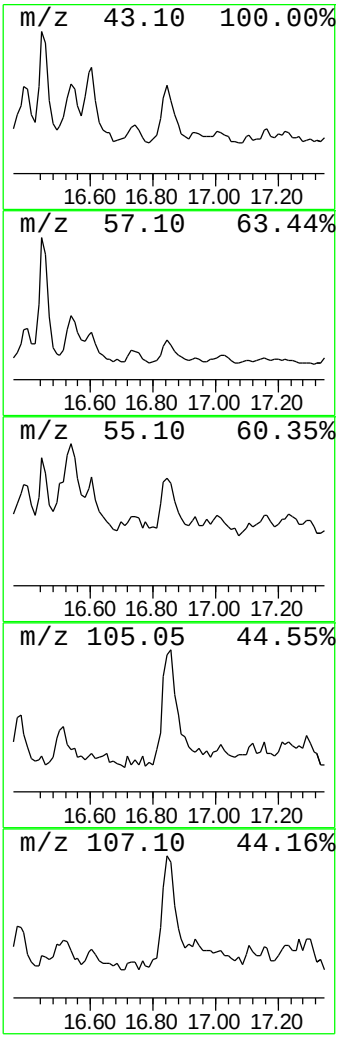
Peak Number 17 unknown16.85 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.85 | 20.77 ng | 297497 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .beta.-Sitosterol acetate | 456 | C31H52O2 | 000915-05-9 | 43 |
| 2 | 4-Hydroxy-4-(4,6-dimethylcyclohe... | 196 | C12H20O2 | 002316-79-2 | 30 |
| 3 | Stigmastan-3,5-diene | 396 | C29H48 | 1000214-16-4 | 25 |
| 4 | Cholest-5-ene, 3-ethoxy-, (3.bet... | 414 | C29H50O | 000986-19-6 | 25 |
| 5 | 5-Cholene, 3,24-dihydroxy- | 360 | C24H40O2 | 1000251-69-2 | 16 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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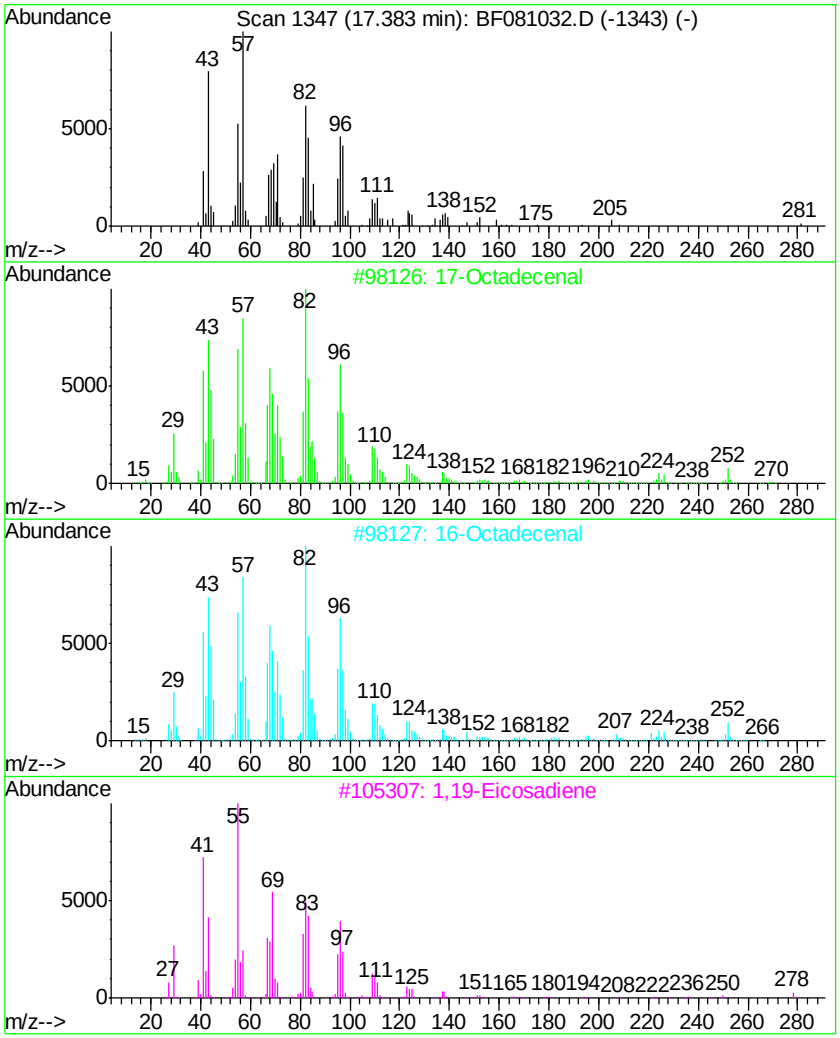
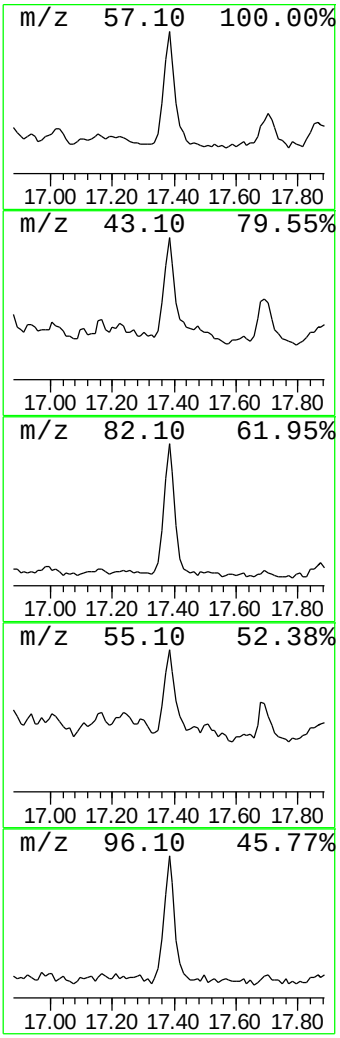
Peak Number 18 17-Octadecenal Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.38 | 16.57 ng | 237350 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 17-Octadecenal | 266 | C18H34O | 056554-86-0 | 72 |
| 2 | 16-Octadecenal | 266 | C18H34O | 056554-87-1 | 72 |
| 3 | 1,19-Eicosadiene | 278 | C20H38 | 014811-95-1 | 64 |
| 4 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 64 |
| 5 | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 59 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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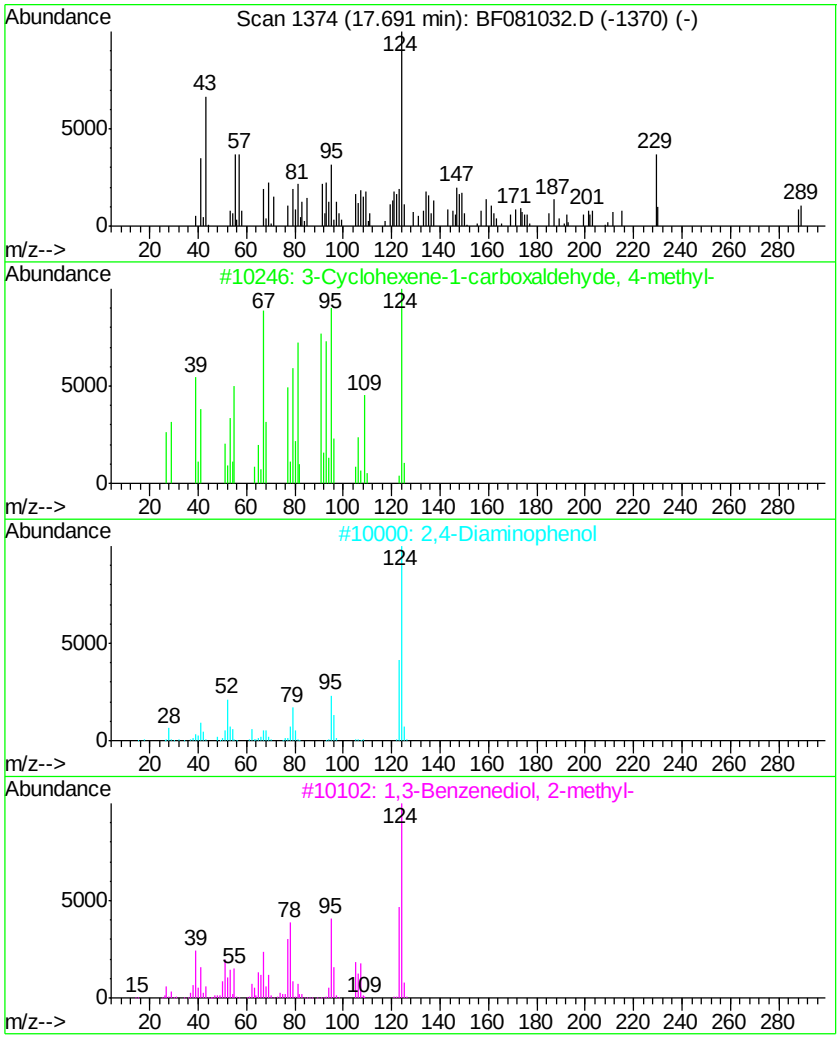
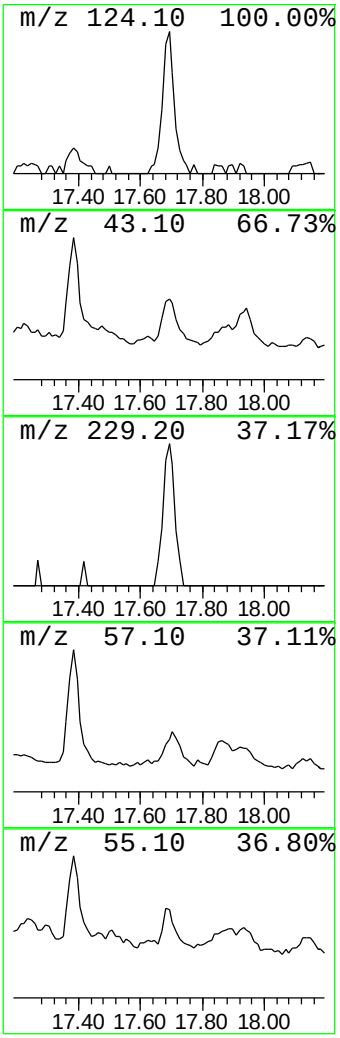
Peak Number 19 3-Cyclohexene-1-carboxaldeh... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.69 | 11.49 ng | 164566 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Cyclohexene-1-carboxaldehyde, ... | 124 | C8H12O | 007560-64-7 | 50 |
| 2 | 2,4-Diaminophenol | 124 | C6H8N2O | 000095-86-3 | 38 |
| 3 | 1,3-Benzenediol, 2-methyl- | 124 | C7H8O2 | 000608-25-3 | 38 |
| 4 | Pyrazine, 2-methoxy-6-methyl- | 124 | C6H8N2O | 002882-21-5 | 38 |
| 5 | Phenol, 2,6-diamino- | 124 | C6H8N2O | 022440-82-0 | 35 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

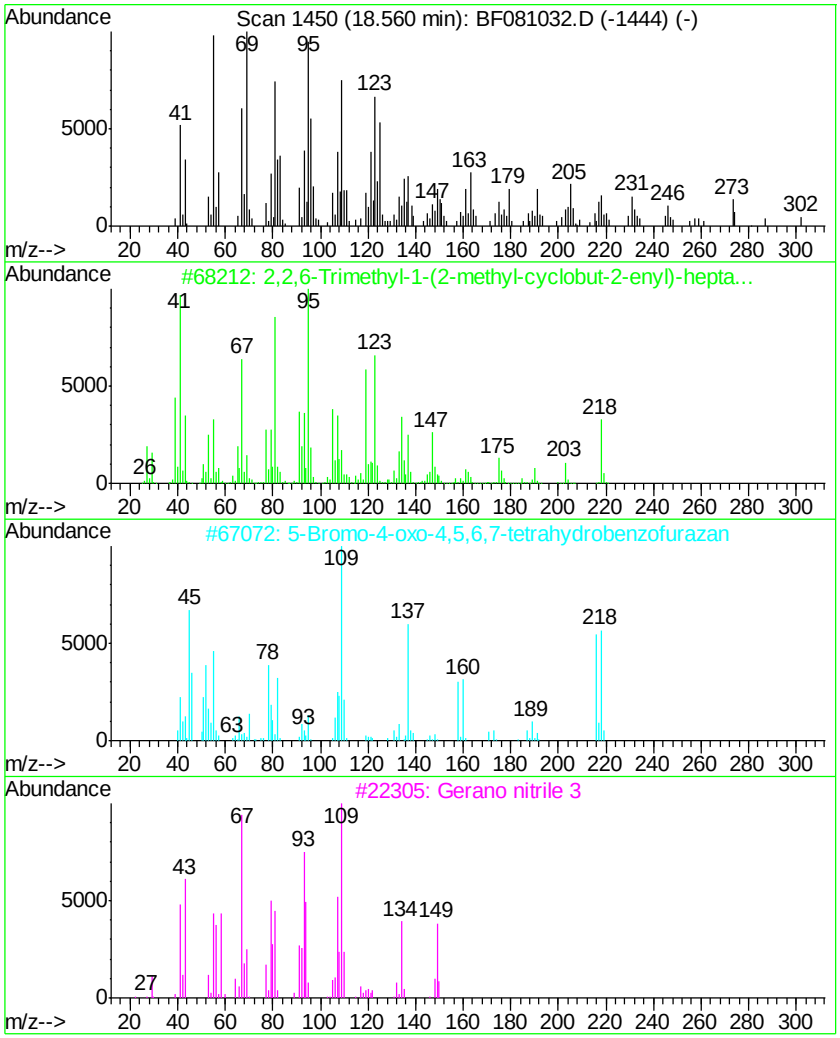
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

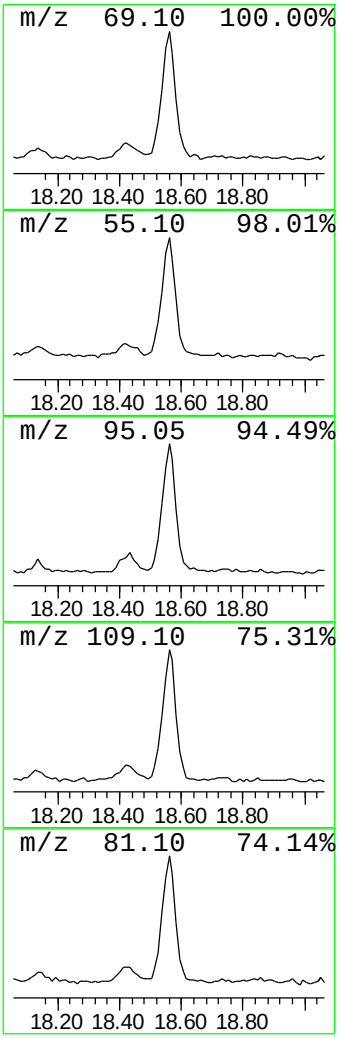
**********

Peak Number 20 2,2,6-Trimethyl-1-(2-methyl... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.56 | 59.67 ng | 854601 | Perylene-d12 | 15.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,2,6-Trimethyl-1-(2-methyl-cycl... | 218 | C15H22O | 1000188-72-8 | 60 |
| 2 | 5-Bromo-4-oxo-4,5,6,7-tetrahydro... | 216 | C6H5BrN2O2 | 300574-36-1 | 53 |
| 3 | Gerano nitrile 3 | 149 | C10H15N | 1000285-27-1 | 44 |
| 4 | 2,4a,8,8-Tetramethyldecahydrocyc... | 206 | C15H26 | 074022-04-1 | 42 |
| 5 | 3-Cyclopentylpropionic acid, 3-c... | 216 | C11H17ClO2 | 1000292-47-2 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
Data File : BF081032.D
Acq On : 18 Aug 2015 6:22
Operator : UM/IZ
Sample : G3290-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 2A(0-2)-3

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.75 | 56.1 | ng | 1056440 | 1 | 6.63 | 376271 | 20.0 |
| unknown6.40 | 6.40 | 87.2 | ng | 1641290 | 1 | 6.63 | 376271 | 20.0 |
| Pentadecanoic acid | 11.69 | 10.4 | ng | 197065 | 4 | 11.13 | 379847 | 20.0 |
| 17-Pentatriacontene | 13.63 | 23.0 | ng | 495533 | 5 | 13.75 | 431103 | 20.0 |
| Heptafluorobutano... | 14.26 | 40.3 | ng | 868891 | 5 | 13.75 | 431103 | 20.0 |
| 1,19-Eicosadiene | 14.67 | 19.7 | ng | 281976 | 6 | 15.11 | 286436 | 20.0 |
| Heneicosane | 14.85 | 41.7 | ng | 596585 | 6 | 15.11 | 286436 | 20.0 |
| Octadecanal | 15.34 | 37.0 | ng | 529877 | 6 | 15.11 | 286436 | 20.0 |
| Octacosane | 15.53 | 39.1 | ng | 559908 | 6 | 15.11 | 286436 | 20.0 |
| 1-Hexacosanol | 15.58 | 19.2 | ng | 275026 | 6 | 15.11 | 286436 | 20.0 |
| 2-Pentadecanone | 15.63 | 14.2 | ng | 203683 | 6 | 15.11 | 286436 | 20.0 |
| Oxirane, heptadecyl- | 16.19 | 33.7 | ng | 482198 | 6 | 15.11 | 286436 | 20.0 |
| Tetracosane | 16.45 | 10.7 | ng | 153158 | 6 | 15.11 | 286436 | 20.0 |
| 5-Eicosene, (E)- | 16.54 | 14.1 | ng | 202337 | 6 | 15.11 | 286436 | 20.0 |
| unknown16.61 | 16.61 | 13.4 | ng | 192190 | 6 | 15.11 | 286436 | 20.0 |
| unknown16.85 | 16.85 | 20.8 | ng | 297497 | 6 | 15.11 | 286436 | 20.0 |
| 17-Octadecenal | 17.38 | 16.6 | ng | 237350 | 6 | 15.11 | 286436 | 20.0 |
| 3-Cyclohexene-1-c... | 17.69 | 11.5 | ng | 164566 | 6 | 15.11 | 286436 | 20.0 |
| 2,2,6-Trimethyl-1... | 18.56 | 59.7 | ng | 854601 | 6 | 15.11 | 286436 | 20.0 |